MLS-EDT
2.0

Technical Specification

Ministry of Forests

Information Management Group

Province of British Columbia

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Prepared by Pangaea Systems Inc

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INTRODUCTION

The purpose of this document is to describe the technical specifications of MLS-EDT 2.0.

This document provides descriptions of the changes to EDT, new file layouts, database changes, as well as any web screen modifications.

The enhancements will be done in two releases. The first release will be in QA for June 1, 2000 and go into production July 1, 2000. The second release will be in the Fall of 2000. All enhancements in this document will be identified as July 2000 or Fall 2000.

APPROVAL

This document is approved. The Technical Specifications for MLS-EDT 2.0 defines the scope and design of the planned enhancements.

John Gallimore Ministry Project Manager	Date
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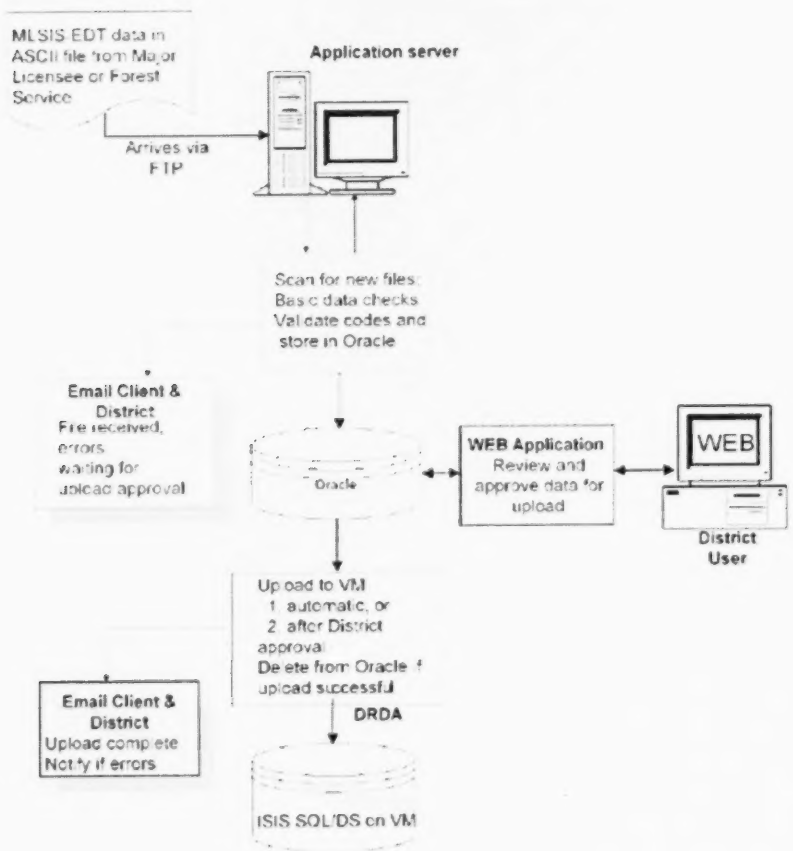
Tony Dellaviola Development Project Manager, EDT 2.0 Enhancements	Date

BACKGROUND

MLSIS Electronic Data Transfer (EDT) is a PC based application that imports an electronic version of the MLSIS form submissions, validates them, and uploads the information to ISIS. The district may view the submissions on a web page and authorize the upload, or they may set the application to directly upload to the ISIS database.

MLSIS Electronic Data Transfer
Data flow



ADMINISTRATION

HEADER RECORD LAYOUT

REC	POS	DESCRIPTION	* TYPE	START	LENGTH
01	01	RECORD TYPE ('H01')	AN	1	3
	02	DISTRICT CODE	AN	4	3
	03	CLIENT CODE	AN	7	8
	04	CLIENT LOCATION CODE	AN	15	2
	05	PREPARED BY	AN	17	35
	06	TELEPHONE NUMBER	AN	52	10
	07	EMAIL ADDRESS	AN	62	50
	08	BATCH REFERENCE DATE	DT	112	10
	09	BATCH REFERENCE NUMBER	AN	122	10
	10	VALIDATION INDICATOR	AN	132	1
	11	OPENING/BATCH CENTRIC IND	AN	133	1
	12	FILLER	AN	134	6
		Record Length: 140			

ADD VALIDATION ONLY INDICATOR TO HEADER (NO UPLOAD)

Release Date: July, 2000

Business Rules:

- Allow data to be submitted for verification only - it will not upload

Technical Specs:

- Add an indicator field to the H01 header record. Valid Values would be:
  V - Validation only
  U – Upload (X and " " treated as "U" for existing data files)
- If the indicator = V then the data is validated only - no upload perform the following steps:
  - Import data.
  - If import OK, validate data.
  - Send results in email
  - Remove data from database.
  - Does not CC ministry staff.
- New Record Layout is identified above and Validation Indicator is marked in Yellow.
- Messages:
  - Error 2116: Validation Indicator must be "V" or "U"

Database Changes

- Database changes required.
  - VALIDATION_INDICATOR needs to be added to EDT_IMPORT_HEADER

ADD HEADER OPENING- OR BATCH-CENTRIC INDICATOR HEADER

Release Date: July, 2000

Business Rules:

- Allow data to be rejected by validation at either the file (batch) level, or rejected by opening.

Technical Specs:

- Add an indicator to the H01 header record. Valid values are:
  O - Process by Opening,
  B - Process by batch. ("X", " " treated as "B" for existing data files)
- If indicator = O:
  Validation errors will reject data only for the current opening.
- If indicator = X, B or " (blank):
  Validation errors will reject all data from the import file.
- New Header Layout is identified above and Header/Batch Centric Indicator is marked in Green
- Messages:
  - Error 2117: HEADER_BATCH_CENTRIC_IND must be "O" or "B"

Database Changes

- Database changes required.
  - BATCH_CENTRIC_INDICATOR needs to be added to EDT_IMPORT_HEADER

ADD ALL ADDRESSING INFORMATION TO BOTH EMAILS (TO: AND CC:)

Release Date: July, 2000

Business Rules:

- The current tool (GovtMailTools.dll) does not support CC.
- Need to show who "TO" and who "CC"

Technical Specs:

- Add text to the message showing the To: address, the CC: address, and the From: identifier

Database Changes

- No Database Changes Required

FORM A

FORM A RECORD LAYOUTS

Record "A01"

RECORD	POSITION	DESCRIPTION	ISIS DB TABLE:FIELD	TYPE	START	LENGTH
02	01	RECORD TYPE ("A01")		Alpha Numeric	1	3
	02	TIMBER MARK	TENURE_PRESC:TIMBER_MARK	Alpha Numeric	4	6
	03	BLOCK	TENURE_PRESC:BLOCK	Alpha Numeric	10	10
	04	STAND TYPE	PRESCRIPTION: PREV_TYPE_IDENT_CD	Alpha Numeric	20	3
	05	SPECIES 1 CODE	PRESCRIPTION: PREV_TREE_SPP1_ST	Alpha Numeric	23	4
	06	SPECIES 2 CODE	PRESCRIPTION: PREV_TREE_SPP2_ST	Alpha Numeric	27	4
	07	AGE CLASS CODE	PRESCRIPTION: PREV_AGE_CLASS_CD	Alpha Numeric	31	1
	08	HEIGHT CLASS CODE	PRESCRIPTION: PREV_HGHT_CLASS_CD	Alpha Numeric	32	1
	09	STOCK CLASS CODE	PRESCRIPTION: PREV_STCK_CLASS_CD	Alpha Numeric	33	1
	10	SITE INDEX	PRESCRIPTION: PREV_SITE_INDEX	Integer	34	2 (99)
	11	DATE SP APPROVED	PRESCRIPTION: APPROVE_DATE	Date	36	10 (YYYY-MM-DD)
	12	YEARS TO HVT	PRESCRIPTION: HARVEST_OFFSET_YRS	Integer	46	2 (99)
	13	TAUP	PRESCRIPTION: TAUP_AREA	Decimal	48	6.1 (99999.9)
	14	PERMANENT ACCESS PCT	PRESCRIPTION: PERM_ACCESS	Decimal	55	3.1 (99.9)
	15	NET AREA	CUT_BLOCK.EST_NET_BLK_AREA	Decimal	59	6.1 (99999.9)
	16	OPENING NUMBER	OPENING: [OPENING INFO SET] Item Positions: Mapsheet Grid 1-3 Mapsheet Letter 4 Mapsheet Square 5-7 Mapsheet Quad 8 Mapsheet Subquad 9 Opening Number 10-13	Alpha Numeric	66	13
	17	OPEN_CATEGORY_CD	OPEN_CATEGORY_CD	Alpha	79	7
	18	ACTION CODE		Alpha Numeric	86	1
	19	FILLER		Alpha Numeric	87	45
		Record Length : 132				

Record "A02"

RECORD	POSITION	DESCRIPTION	ISIS DB TABLE:FIELD	TYPE	START	LENGTH
03	01	RECORD TYPE ("A02")		Alpha Numeric	1	3
	02	TIMBER MARK	IDENT	Alpha Numeric	4	6
	03	BLOCK	IDENT	Alpha Numeric	10	10
	04	TIMBER MARK	TENURE_PRESC: TIMBER_MARK	Alpha Numeric	20	6
	05	BLOCK	TENURE_PRESC: CUT_BLOCK_ID	Alpha Numeric	26	10
	06	LICENCE NUMBER	TENURE_PRESC: FOREST_FILE_ID	Alpha Numeric	36	10
	07	CUTTING PERMIT ID	TENURE_PRESC: CUTTING_PERMIT_ID	Alpha Numeric	46	3
	08	PRIME LICENCE INDICATOR	TENURE_PRESC:PRIME_LICENCE_ID	Alpha Numeric	49	1
	09	MANAGED BY FOR. FILE ID	PRMT_AUTHZD_BLK.FOREST_FILE_ID	Alpha Numeric	50	10
	10	MANAGED BY CUTTING PERMIT	PRMT_AUTHZD_BLK.CUTTING_PERMIT_ID	Alpha Numeric	60	3
	11	TENURE_PRESC_AREA	TENURE_PRESC: TENURE_PRESC_AREA	Decimal	63	6.1 (99999.9)
	12	TENURE_NET_AREA	TENURE_PRESC: TENURE_NET_AREA	Decimal	70	6.1 (99999.9)
	13	ACTION CODE		Alpha Numeric	77	1
	14	FILLER		Alpha Numeric	78	54
		Record Length : 132				

Record "A03"

RECORD	POSITION	DESCRIPTION	ISIS DB TABLE:FIELD	TYPE	START	LENGTH
04	01	RECORD TYPE ("A03")		Alpha Numeric	1	3
	02	TIMBER MARK	IDENT	Alpha Numeric	4	6
	03	BLOCK	IDENT	Alpha Numeric	10	10
	04	STANDARDS UNIT ID	STANDARDS_PRESC: STANDARDS_UNIT_ID	Alpha Numeric	20	1
	05	NET AREA (ha)	STANDARDS_PRESC: TREATABLE_AREA	Decimal	21	6.1(99999.9)
	06	REGEN METHOD	STANDARDS_PRESC: REGEN_METHOD_CD	Alpha Numeric	28	5
	07	REGEN DELAY YEARS	STANDARDS_PRESC: REGEN_DELAY_YEARS	Integer	33	2 (99)
	08	EARLY FREE GROWING YEARS	STANDARDS_PRESC: EARLY_FG_YEARS	Integer	35	2 (99)
	09	LATE FREE GROWING YEARS	STANDARDS_PRESC: LATE_FG_YEARS	Integer	37	2 (99)

	10	MAX ALLOW. TOT. DISTURB (%)	STANDARDS_PRESC: MAX_SOIL_POST_PCT	Decimal	39	3.1 (99.9)
	11	MAX FOR FLOOR DISPLACE (%)	STANDARDS_PRESC: MAX_FLOOR_DISP_PCT	Decimal	43	3.1 (99.9)
	12	MAX FOR FLOOR REDUCTION	STANDARDS_PRESC: FOR_FLOOR_REMAIN	Integer	47	3 (999)
	13	ACTION CODE		Alpha Numeric	50	1
	14	FILLER		Alpha Numeric	51	82
		Record Length : 132				

Record "A04"

RECORD	POSITION	DESCRIPTION	ISIS DB TABLE:FIELD	TYPE	START	LENGTH
05	**01**	**RECORD TYPE ("A04")**		Alpha Numeric	1	3
	02	TIMBER MARK	IDENT	Alpha Numeric	4	6
	03	BLOCK	IDENT	Alpha Numeric	10	10
	04	STANDARDS UNIT ID	SU_ECOLOGY: STOCKING_SKEY (Mapped)	Alpha Numeric	20	1
	05	ECO STRATUM ID	SU_ECOLOGY:STRATUM_ID	Alpha Numeric	21	1
	06	BGC ZONE	SU_ECOLOGY: BGC_ZONE	Alpha Numeric	22	4
	07	BGC SUBZONE	SU_ECOLOGY: BGC_SUBZONE	Alpha Numeric	26	3
	08	BGC VARIANT	SU_ECOLOGY: BGC_VARIANT	Alpha Numeric	29	1
	09	BGC PHASE	SU_ECOLOGY: BGC_PHASE	Alpha Numeric	30	1
	10	BGC SITE SERIES	SU_ECOLOGY: BGC_SITE_SERIES	Alpha Numeric	31	2
	11	BGC SITE TYPE	SU_ECOLOGY: BGC_SITE_TYPE	Alpha Numeric	33	2
	12	ELEVATION AVERAGE	SU_ECOLOGY: ELEVATION_AVG	Integer	35	4 (9999)
	13	ASPECT CODE	SU_ECOLOGY: ASPECT_CODE	Alpha Numeric	39	2
	14	ACTION CODE		Alpha Numeric	41	1
	15	FILLER		Alpha Numeric	42	91
		Record Length : 132				

Record "A05"

RECORD	POSITION	DESCRIPTION	ISIS DB TABLE:FIELD	TYPE	START	LENGTH
06	01	RECORD TYPE ("A05")		Alpha Numeric	1	3
	02	TIMBER MARK	IDENT	Alpha Numeric	4	6
	03	BLOCK	IDENT	Alpha Numeric	10	10
	04	STANDARDS UNIT ID	STOCKING_LAYER: STOCKING_SKEY (Mapped)	Alpha Numeric	20	1
	05	LAYER	STOCKING_LAYER: STOCKING_LAYER_ST	Alpha Numeric	21	2
	06	TARGET STOCKING	STOCKING_LAYER: TARGET_STOCKING	Integer	23	4 (9999)
	07	STOCK MINIMUM	STOCKING_LAYER: MIN_STOCKING	Integer	27	4 (9999)
	08	MINIMUM PREFERRED	STOCKING_LAYER: MIN_PREF_STOCKING	Integer	31	4 (9999)
	09	MINIMUM HORIZ.	STOCKING_LAYER: MIN_HRZNTL_SPACING	Decimal	35	6.1(999999)
	10	BASAL AREA	STOCKING_LAYER: MIN_RES_BASAL_AREA	Integer	42	3 (999)
	11	PREFERRED SPECIES 1 CODE	STOCKING_LAYER: PREF_TREE_SPP1_ST	Alpha Numeric	45	8
	12	PREFERRED SPECIES 2 CODE	STOCKING_LAYER: PREF_TREE_SPP2_ST	Alpha Numeric	53	8
	13	PREFERRED SPECIES 3 CODE	STOCKING_LAYER: PREF_TREE_SPP3_ST	Alpha Numeric	61	8
	14	PREFERRED SPECIES 4 CODE	STOCKING_LAYER: PREF_TREE_SPP4_ST	Alpha Numeric	69	8
	15	ACCEPTABLE SPECIES 1 CODE	STOCKING_LAYER: ACC_TREE_SPP1_ST	Alpha Numeric	77	8
	16	ACCEPTABLE SPECIES 2 CODE	STOCKING_LAYER: ACC_TREE_SPP2_ST	Alpha Numeric	85	8
	17	ACCEPTABLE SPECIES 3 CODE	STOCKING_LAYER: ACC_TREE_SPP3_ST	Alpha Numeric	93	8
	18	ACCEPTABLE SPECIES 4 CODE	STOCKING_LAYER: ACC_TREE_SPP4_ST	Alpha Numeric	101	8
	19	MAX DENSITY	STOCKING_LAYER: MAX_DENSITY	Integer	109	6 (999999)
	20	TREE SIZE	STOCKING_LAYER: TREE_SIZE	Integer	115	3 (999)
	21	TREE SIZE UNIT	STOCKING_LAYER: TREE_SIZE_UNIT_ST	Alpha Numeric	118	3
	22	ACTION CODE		Alpha Numeric	121	1
	23	FILLER		Alpha Numeric	122	11
		Record Length : 132				

Record "A06"

RECORD	POSITION	DESCRIPTION	ISIS DB TABLE:FIELD	TYPE	START	LENGTH
07	01	**RECORD TYPE ("A06")**		Alpha Numeric	1	3
	02	TIMBER MARK	IDENT	Alpha Numeric	4	6
	03	BLOCK	IDENT	Alpha Numeric	10	10
	04	STANDARDS UNIT ID	FORHEALTH_PRESC: STOCKING_SKEY (Map)	Alpha Numeric	20	1
	05	LAYER	FORHEALTH_PRESC: STOCKING_LAYER_ST	Alpha Numeric	21	2
	06	PEST CODE	FORHEALTH_PRESC: PEST_SPECIES_CD	Alpha Numeric	23	3
	07	PEST PERCENT	FORHEALTH_PRESC: MAX_INCIDENCE_PCT	Integer	26	3 (999)
	08	ACTION CODE		Alpha Numeric	29	1
	09	FILLER		Alpha Numeric	30	103
		Record Length : 132				

Record "A07"

RECORD	POSITION	DESCRIPTION	ISIS DB TABLE:FIELD	TYPE	START	LENGTH
07	01	**RECORD TYPE ("A07")**		Alpha Numeric	1	3
	02	TIMBER MARK	IDENT	Alpha Numeric	4	6
	03	BLOCK	IDENT	Alpha Numeric	10	10
	04	PERMANENT ACCESS AREA	PRESCRIPTION.PERMNT_ACCESS_AREA	Decimal	20	6.1(99999.9)
	05	NON PRODUCTIVE ROCK AREA	PRESCRIPTION.NP_ROCK_AREA	Decimal	27	6.1(99999.9)
	06	NON PRODUCTIVE WATER AREA	PRESCRIPTION.NP_WATER_AREA	Decimal	34	6.1(99999.9)
	07	NON PRODUCTIVE SWAMP AREA	PRESCRIPTION.NP_SWAMP_AREA	Decimal	41	6.1(99999.9)
	08	NON PRODUCTIVE OTHER AREA	PRESCRIPTION.NP_OTHER_AREA	Decimal	48	6.1(99999.9)
	09	NON COMMERCIAL AREA	PRESCRIPTION.NC_AREA	Decimal	55	6.1(99999.9)
	10	RESERVES WITH NO MODIFICATIONS	PRESCRIPTION.TOTAL_RES_AREA	Decimal	62	6.1(99999.9)
	11	IMMATURE AREA	PRESCRIPTION.IMM_AREA	Decimal	69	6.1(99999.9)
	12	OTHER AREA	PRESCRIPTION.OTHER_AREA	Decimal	76	6.1(99999.9)
	13	ACTION CODE		Alpha Numeric	83	1
	13	FILLER		Alpha Numeric	84	48
		Record Length : 132				

Record "A08"

RECORD	POSITION	DESCRIPTION	ISIS DB TABLE:FIELD	TYPE	START	LENGTH
07	01	RECORD TYPE ("A08")		Alpha Numeric	1	3
	02	TIMBER MARK	IDENT	Alpha Numeric	4	6
	03	BLOCK	IDENT	Alpha Numeric	10	10
	04	RESERVE ID	RESERVE_PRESC.RESERVE_ID	Alpha Numeric	20	2
	05	RESERVE TYPE	RESERVER_PRESC.RESERVE_TYPE_CD	Alpha Numeric	22	1
	06	AREA	RESERVE_PRESC.RESERVE_AREA	Decimal	23	6.1(99999.9)
	07	BASAL AREA	RESERVE_PRESC.MAX_RMZ_BASAL_AREA	Integer	30	3(999)
	08	PLANNED ENTRY	RESREVE_PRESC.PLANNED_ENTRY_IND	Alpha Numeric	33	1
	09	SU XREF 1	SU_RESERVE_LNK	Alpha Numeric	34	1
	10	SU XREF 2	SU_RESERVE_LNK	Alpha Numeric	35	1
	11	SU XREF 3	SU_RESERVE_LNK	Alpha Numeric	36	1
	12	SU XREF 4	SU_RESERVE_LNK	Alpha Numeric	37	1
	13	SU XREF 5	SU_RESERVE_LNK	Alpha Numeric	38	1
	14	SU XREF 6	SU_RESERVE_LNK	Alpha Numeric	39	1
	15	SU XREF 7	SU_RESERVE_LNK	Alpha Numeric	40	1
	16	SU XREF 8	SU_RESERVE_LNK	Alpha Numeric	41	1
	17	SU XREF 9	SU_RESERVE_LNK	Alpha Numeric	42	1
	18	SU XREF 10	SU_RESERVE_LNK	Alpha Numeric	43	1
	19	SU XREF 11	SU_RESERVE_LNK	Alpha Numeric	44	1
	20	SU XREF 12	SU_RESERVE_LNK	Alpha Numeric	45	1
	21	SU XREF 13	SU_RESERVE_LNK	Alpha Numeric	46	1
	22	SU XREF 14	SU_RESERVE_LNK	Alpha Numeric	47	1
	23	SU XREF 15	SU_RESERVE_LNK	Alpha Numeric	48	1
	24	SU XREF 16	SU_RESERVE_LNK	Alpha Numeric	49	1
	25	SU XREF 17	SU_RESERVE_LNK	Alpha Numeric	50	1
	26	SU XREF 18	SU_RESERVE_LNK	Alpha Numeric	51	1
	27	SU XREF 19	SU_RESERVE_LNK	Alpha Numeric	52	1
	28	SU XREF 20	SU_RESERVE_LNK	Alpha Numeric	53	1

29	ACTION CODE	Alpha Numeric	54	1
30	FILLER	Alpha Numeric	55	77
	Record Length : 132			

INVESTIGATE HOW CORRECTIONS TO FORM A WILL BE HANDLED

Release Date: Fall, 2000

Business Rules:

- Need to be able to submit data corrections via files
- Add an Action code to the end of each line

Technical Specs:

- Add an Action code to each line in the import file:
  I = Insert ("X", " " will be treated as "I" for existing datafiles)
  U = Update
  D = Delete
- X, I or " (blank) causes a record to be written to the database.
- U causes an update to a record, if it exists.
- D causes a record to be deleted, if it exists.
- Cannot Delete Tenure, SU's

- New Record Layout is identified above and changed for the Action Code is marked in Yellow.:
- Messages:
  - Error 2121: Action Code must be "I", "U", or "D".
  - Error 2131: You cannot delete Tenure SU's

Database Changes:

- Database table modifications will be required.
  - ACTION_CODE required in EDT_PRESCRIPTION

ADD AREA SUMMARY

Release Date: July, 2000

Business Rules:

- Need a new line for Area Summary data to Support No Planned Removal Area Definition

Technical Specs:

- Need new line to support Area Summary data, line A07.
- This will contain
  - NPR Area
    - Permanent Access Area
    - NP Rock Area
    - NP Water Area
    - NP Swamp Area
    - NP Other Area
    - NC Area
    - Reserves with no modifications
    - Immature Area
    - Other Area
- Validation:
  - Sum of total NPR + NAR must equal Taup Area
  - All fields defined as 99999.9
  - Only 1 A07 allowed per Timber Mark/Block
- For the File Layout for the New "A07" see the section above called "Form A Record Layouts"
- Messages:
  - Error 2118: A07 Record is mandatory if A08 present. Please provide an A07 record.
  - Error 2119: The sum of the total NPR + NAR does not equal the Taup Area.
  - Error 2132: NC Area is not in the valid range of 0 to 9999.9
  - Error 2133: Permanent Access Area is not in the valid range of 0 to 9999.9
  - Error 2134: NP Other Area is not in the valid range of 0 to 9999.9
  - Error 2135: Immature Area is not in the valid range of 0 to 9999.9
  - Error 2136: NP Rock Area is not in the valid range of 0 to 9999.9
  - Error 2137: NP Water Area is not in the valid range of 0 to 9999.9
  - Error 2138: NP Swamp Area is not in the valid range of 0 to 9999.9
  - Error 2139: Other Area is not in the valid range of 0 to 9999.9
  - Error 2140: Total Reserves Area is not in the valid range of 0 to 9999.9
  - Error 2147: Only 1 A07 record is permitted per Timber Mark/Block.

Database Changes:

- Area fields need to be added to the EDT_PRESCRIPTION table.

Amendment 2000-06-07:

- Changed so that warning is generated if Area Summary data not provided.
  WARNING: Area Summary missing. The Area Summary line should be provided. Err Ref# 2159.

ADD RESERVES

Release Date: July, 2000

Business Rules:

- Need a new line code for Reserve data

Technical Specs:

- Need new line to support Reserve data, line A08.
- This will contain
  - Reserve Id
  - Reserve Type
  - Reserve Area
  - Basal Area
  - Planned Entry Indicator
  - SU Xref 1…20
- Validations:
  - A08 Record is Optional.
  - Reserve Id is mandatory and must be unique if A08 is present.
  - Reserve Type Code must be validated against the Reserve Type in the Code Table
  - Reserve Area or Basal Area are required
  - Reserve Area must be in the range of 0 to 9999.9
  - SU Xref is required when Planned Entry Ind is "Y"
  - Basal Area must be in the range of 0 to 999
  - When Planned Entry is "N" the SU's selected must not have area assigned to them
  - If reserve lines are present then the sum of reserves with no harvesting must equal the reserves with no modifications in the A07 record.
  - 50 A08 Records allowed per Timber Mark/Block.

- For the File Layout for the New "A08" see the section above called "Form A Record Layouts"

- Messages:
  - Error 2143: Reserve Id must be supplied.
  - Error 2123: Reserve Id must be unique.
  - Error 2124: Reserve Type Code is not valid, please provide a valid Reserve Type Code.
  - Error 2125: Reserve Area or Basal Area is required.
  - Error 2126: Reserve Area is not in the valid range of 0 to 9999.9
  - Error 2127: SU X REF is required when the Planned Entry field is 'Y'
  - Error 2128: Basal Area must be in the range of 0 to 999
  - Error 2129: When Planned Entry is "N" the SU"s selected must not have area assigned to them.
  - Error 2141: The Sum of Reserves with no Harvesting must equal the Reserves With no Modifications in the A07 record.
  - Error 2148: You may only have up to 50 A08 Records be Timber Mark/Block.

Database Changes:

- Reserve Presc and SU Reserve Lnk tables need to be added.

ADD SUPPORT FOR RECORDING AREA ON MULTI-TENURE BLOCKS

Release Date: July, 2000

Business Rules:

- Allow Gross Harvest Area and Net Harvest Area to be supplied by Licence/CP/Block.
- Mainly used with multi-tenure blocks

Technical Specs:

- Add TENURE_PRESC_AREA and TENURE_NET_AREA to A02 record
- Treat XXXXXXX or " " as 0.0
- Must be a valid numbers between 0.0 and 9999.9
- Further validations will be added in the Fall release.
- Messages:
  - Error ??: Gross Harvest Area is not in the valid range of 0 to 9999.9
  - Error ??: Net Harvest Area is not in the valid range of 0 to 9999.9

Database Changes:
No database changes required.

ADD SUPPORT FOR DIFFERENT OPENING CATEGORY CODES (SUPPORT FOR FRBC)

Release Date: July, 2000

Business Rules:

- Opening category currently defaults to FTML, allow support for various category codes.

Technical Specs:

- Add OPEN_CATEGORY_CD to A01 record
- Treat XXXXXXX or " " as "FTML"
- Must be a valid code in CODE_LIST_TABLE for column OPEN_CATEGORY_CD
- Further validation and process will be added in the Fall release. Current FTML validations and process will apply to all data.
- Messages:
  - Error 2095: Invalid Opening Category Code

Database Changes:
No database changes required.

FORM B

FORM B RECORD LAYOUTS

Record "B01"

RECORD	POSITION	DESCRIPTION	ISIS DB TABLE:FIELD	TYPE	START	LENGTH
01	01	RECORD TYPE ("B01")		Alpha Numeric	1	3
	02	TIMBER MARK		Alpha Numeric	4	6
	03	BLOCK		Alpha Numeric	10	10
	04	ACTIVITY TREATMENT UNIT ID	ACTIVITY_TU:ACTIVITY_TU_ID	Alpha Numeric	20	3
	05	DISTURBANCE	HARVEST_RSLT:ACT_DISTURBANCE_ST	Alpha Numeric	23	1
	06	SILV SYSTEM	ACTIVITY_TU:ACT_METHOD_CODE	Alpha Numeric	24	5
	07	VARIANT	HARVEST_RSLT:ACT_SYSTEM_VAR_CODE	Alpha Numeric	29	3
	08	CUT PHASE	HARVEST_RSLT:ACT_CUT_PHASE_CODE	Alpha Numeric	32	5
	09	HARVEST STARTED DATE	HARVEST_RSLT:ACT_HARV_START_DT	Date	37	10 (YYYY-MM-DD)
	10	HARVEST COMPLETED DATE	ACTIVITY_TU:ATU_COMPLETION_DT	Date	47	10 (YYYY-MM-DD)
	11	RESERVE TYPE	HARVEST_RSLT:RESERVE_TYPE_CD	Alpha Numeric	57	1
	12	GROSS BLOCK AREA	ACTIVITY_TU:ACT_TRTMNT_AMT	Decimal	58	6.1(99999.9)
	13	ACTION CODE		Alpha Numeric	65	1
	14	FILLER		Alpha Numeric	66	67
		Record Length : 132				

Record "B02"

RECORD	POSITION	DESCRIPTION	ISIS DB TABLE:FIELD	TYPE	START	LENGTH
02	01	RECORD TYPE ("B02")		Alpha Numeric	1	3
	02	TIMBER MARK	IDENT	Alpha Numeric	4	6
	03	BLOCK	IDENT	Alpha Numeric	10	10
	04	ACTIVITY TREATMENT UNIT ID	IDENT	Alpha Numeric	20	3
	05	ACTIVITY BASE	ACTIVITY_TU:SILV_BASE_CD	Alpha Numeric	23	2
	06	ACTIVITY TECHNIQUE	ACTIVITY_TU:ACT_TECHNIQUE_CD	Alpha Numeric	25	2
	07	ACTIVITY METHOD	ACTIVITY_TU:ACT_METHOD_CD	Alpha Numeric	27	5
	08	OBJECTIVE 1	ACTIVITY_TU:SILV_OBJECTIVE1_CD	Alpha Numeric	32	3
	09	OBJECTIVE 2	ACTIVITY_TU:SILV_OBJECTIVE2_CD	Alpha Numeric	35	3
	10	OBJECTIVE 3	ACTIVITY_TU:SILV_OBJECTIVE3_CD	Alpha Numeric	38	3
	11	FUNDING SOURCE	ACTIVITY_TU:ACT_FUND_SRCE_CD	Alpha Numeric	41	3
	12	COMPLETION DATE	ACTIVITY_TU:ATU_COMPLETION_DT	Date	44	10 (YYYY-MM-DD)
	13	NET AREA TREATED	ACTIVITY_TU:ACT_TRTMNT_AMT	Decimal	54	6.1(99999.9)
	14	ACTION CODE		Alpha Numeric	61	1
	15	FILLER		Alpha Numeric	62	71
		Record Length : 132				

Record "B03"

RECORD	POSITION	DESCRIPTION	ISIS DB TABLE:FIELD	TYPE	START	LENGTH
03	01	RECORD TYPE ("B03")		Alpha Numeric	1	3
	02	TIMBER MARK	IDENT	Alpha Numeric	4	6
	03	BLOCK	IDENT	Alpha Numeric	10	10
	04	ACTIVITY TREATMENT UNIT ID	IDENT	Alpha Numeric	20	3
	05	SEEDLOT	PLANT_STCK_ALOT:SEEDLOT_NUMBER	Alpha Numeric	23	5
	06	SPECIES	PLANT_STCK_ALOT:SILV_SPECIES_ST	Alpha Numeric	28	8
	07	NUMBER PLANTED	PLANT_STCK_ALOT:PLANTED_NUMBER	Integer	36	7 (9999999)
	09	FILLER		Alpha Numeric	42	89
		Record Length : 132				

INVESTIGATE HOW CORRECTIONS TO FORM B WILL BE HANDLED

Release Date: July, 2000

Business Rules:

- Need to be able to submit data corrections via files
- Add an Action code to the end of each line

Technical Specs:

- Add an Action code to each line in the import file:
  I = Insert ("X" and " " will be treated as "I" - Insert)
  U = Update
  D = Delete
- X, I or " (blank) causes a record to be written to the database.
- U causes an update to a record, if it exists.
- D causes a record to be deleted, if it exists.
- New Record Layout is identified above and changed for the Action Code is marked in Yellow.:
- ATU Id must be present for Updates and Deletes.
- Validations:
  - Action Code must be "X", "I", "U", "D", or blank.
  - If Action Code = "U" Then ATU Id must be present
  - For updates and Delete the Base Code must be the same in ISIS for the ATU.
- Messages:
  - Error 2121: Action Code must be "I", "U", or "D"
  - Error 2122: If Action Code = "U" Then ATU Id must be present. Please provide an ATU Id.
  - Error 2144: If Action Code = "D" then ATU Id must be present, please provide an ATU Id.
  - Error 2145: The ATU must exist in ISIS
  - Error 2146: The Silviculture Base Code cannot be changed.

Database Changes:

- Database changes required.
  - ACTION_CODE required in EDT_ACTIVITY_TU

Amendment 2000-06-07

- Planted Number must be greater than zero for all Planting activities unless the Technique code is 'SE', where the planted tress is optional.
  Planted Number must be greater than zero for PL activities (Technique SE allows zero planted). Err Ref# 2160

INVESTIGATE ODBC ERROR

Release Date: July, 2000

Business Rules:

- Investigate -803 error uploading ATU data.
- Appears locks on the Max Skey tables not being held

Technical Specs:

- Re-order the code around getting and updating the max skey:
- Update first, then select

- That will cause an exclusive lock on the table and resolve conflicts with other users accessing the same max skey table.

Database Changes:
No database changes required.

FORM C

FORM C RECORD LAYOUTS

Record "C01"

RECORD	POSITION	DESCRIPTION	ISIS DB TABLE:FIELD	TYPE	START	LENGTH
01	01	RECORD TYPE ("C01")		Alpha Numeric	1	3
	02	TIMBER MARK	IDENT	Alpha Numeric	4	6
	03	BLOCK	IDENT	Alpha Numeric	10	10
	04	STRATA	FOREST_COVER:SILV_POLYGON_NO	Alpha Numeric	20	4
	05	LAYER	FOREST_COVER:FOR_COVER_LAYER_CD	Alpha Numeric	24	2
	06	RANK	FOREST_COVER:FOR_COVER_RANK_CD	Alpha Numeric	26	1
	07	AREA	FOREST_COVER:FOR_COVER_AREA	Decimal	27	6,1(999999)
	07	STOCKING STATUS	FOREST_COVER:STOCKING_STATUS_CD	Alpha Numeric	34	3
	08	STOCKING TYPE	FOREST_COVER:STOCKING_TYPE_CD	Alpha Numeric	37	3
	09	FILLER		Alpha Numeric	40	100
		Record Length : 132				

Record "C02"

REC	POS	DESCRIPTION	ISIS DB TABLE:FIELD	TYPE	START	LENGTH
02	01	RECORD TYPE ("CO2")		Alpha Numeric	1	3
	02	TIMBER MARK	IDENT	Alpha Numeric	4	6
	03	BLOCK	IDENT	Alpha Numeric	10	10
	04	STRATA	IDENT	Alpha Numeric	20	4
	05	LAYER	IDENT	Alpha Numeric	24	2
	06	SPECIES CODE	FOREST_COVER:TREE_SPECIESx_CD	Alpha Numeric	26	8
	07	SPECIES PERCENT	FOREST_COVER:TREE_SPECIESx_PCT	Integer	34	3 (999)
	08	SPECIES SEQUENCE NUMBER	IDENT FOR x IN TREE_SPECIESx_ST	Alpha Numeric	37	1
	09	FILLER		Alpha Numeric	38	93
		Record Length : 132				

Record "C03"

REC	POS	DESCRIPTION	ISIS DB TABLE:FIELD	TYPE	START	LENGTH
03	01	RECORD TYPE ("CO3")		Alpha Numeric	1	3
	02	TIMBER MARK	IDENT	Alpha Numeric	4	6
	03	BLOCK	IDENT	Alpha Numeric	10	10
	04	STRATA	IDENT	Alpha Numeric	20	4
	05	LAYER	IDENT	Alpha Numeric	24	2
	06	AGE YEARS	FOREST_COVER:AVG_AGE	Integer	26	3 (999)
	07	AGE PLT	FOREST_COVER:PLANTED_STOCK_AGE	Integer	29	3 (999)
	08	HEIGHT	FOREST_COVER:AVG_HEIGHT	Decimal	32	6.1(99999.9)
	09	CROWN CLOSURE	FOREST_COVER:CROWN_CLOSURE_PCT	Integer	39	3 (999)
	10	REF YEAR	FOREST_COVER:REFERENCE_YEAR	Integer	42	4 (9999)
	11	SITE INDEX SOURCE	FOREST_COVER:SITE_INDEX_SRC_CD	Alpha Numeric	46	1
	12	SITE INDEX	FOREST_COVER:SITE_INDEX	Integer	47	2 (99)
	13	DENSITY STEMS	FOREST_COVER:TOTAL_STEMS_PER_HA	Integer	49	6 (999999)
	14	WELL SPACED	FOREST_COVER:WS_STEMS_PER_HA	Integer	55	6 (999999)
	15	FREE GROWING	FOREST_COVER:FG_STEMS_PER_HA	Integer	61	6 (999999)
	16	RESERVE TYPE	FOREST_COVER:RESERVE_TYPE_CD	Alpha Numeric	67	1
	17	BASAL AREA	FOREST_COVER:BASAL_AREA	Integer	68	3 (999)
	18	FILLER		Alpha Numeric	71	64
		Record Length : 132				

Record "C04"

REC	POS	DESCRIPTION	ISIS DB TABLE:FIELD	TYPE	START	LENGTH
03	01	RECORD TYPE ("CO4")		Alpha Numeric	1	3
	02	TIMBER MARK	IDENT	Alpha Numeric	4	6
	03	BLOCK	IDENT	Alpha Numeric	10	10
	04	STRATA	FORHEALTH_RSLT:SILV_POLYGON_NO	Alpha Numeric	20	4
	05	LAYER	FORHEALTH_RSLT:FOR_COVER_LAYER_CD	Alpha Numeric	24	20
	06	PEST CODE	FORHEALTH_RSLT:PEST_SPECIES_CD	Alpha Numeric	44	1
	07	PEST PERCENT	FORHEALTH_RSLT:INCIDENCE_PCT	Date	45	10 (YYYY-MM-DD)
	08	FILLER				

Record "C05"

REC	POS	DESCRIPTION	ISIS DB TABLE:FIELD	TYPE	START	LENGTH
03	**01**	**RECORD TYPE ("CO4")**		Alpha Numeric	1	3
	02	TIMBER MARK	IDENT	Alpha Numeric	4	6
	03	BLOCK	IDENT	Alpha Numeric	10	10
	04	STANDARDS_UNIT_ID	IDENT	Alpha Numeric	20	1
	05	REGEN_IND	STANDARDS_PRESC.SU_REGEN_IND	Alpha Numeric	21	1
	06	REGEN_DATE	STANDARDS_PRESC.SU_REGEN_DATE	Date	22	10 (YYYY-MM-DD)
	07	FILLER		Alpha Numeric	32	100

Record "C06"

REC	POS	DESCRIPTION	ISIS DB TABLE:FIELD	TYPE	START	LENGTH
03	**01**	**RECORD TYPE ("CO5")**		Alpha Numeric	1	3
	02	TIMBER MARK	IDENT	Alpha Numeric	4	6
	03	BLOCK	IDENT	Alpha Numeric	10	10
	04	STANDARDS_UNIT_ID	IDENT	Alpha Numeric	20	1
	05	FREE_GROW_IND	STANDARDS_PRESC.SU_FREE_GROW_IND	Alpha Numeric	21	1
	06	FREE_GROW_DATE	STANDARDS_PRESC.SU_FREE_GROW_DATE	Date	22	10 (YYYY-MM-DD)
	07	FILLER		Alpha Numeric	32	100

INVESTIGATE/SPEC RETAINING POLYGON NUMBERS WHEN FORM C IS UPLOADED

Release Date: July, 2000

Business Rules:

- Requires a mapping table to store polygon/strata cross references
- Note: Recommend ML's retain strata identification.

Technical Specs:

- No changes to EDT required.

Database Changes:

- None

FORM C FOREST COVER EDITS

Release Date: July, 2000

Business Rules:

Technical Specs:

- Allow WS = 0 when layer is Inventory and layer = 1,2,3 or 4
- Relax Forest Cover edit if Reserve code is present:
  - If Reserve <> 'N' or blank And Stocking Status = MAT or IMM

    The only required fields are:

    Reserve Type
    Strata ID
    Area
    Ref. Year
    Stocking Status Code
    Stocking Type Code

Database Changes:

- None

Amendment 2000-06-07:

- Pest Species cannot be duplicated within a Timber Mark/Cut Block/SU.
  Pest Species Cannot be duplicated within a Timber Mark/Cut Block/SU. Error Ref# 2153

LAND STATUS AREA'S

Release Date: July, 2000

Business Rules:

- Stocking status MAT NAT is incorrectly being lumped into SR NAT category. Major licensees have a special designation for NC BR which is currently be lumped into NP FOR

Technical Specs:

- Modify the screen to have 4 main categories NP, NSR, IMM, Other
- Move NC BR from NP to Other
- Move MAT from SR to Other

Database Changes:

- ISIS only.

SWITCH SITE CLASS FIELD TO SITE INDEX SOURCE FIELD

Release Date: July, 2000

Business Rules:

- Replace Site Class Code with Site Index Source Code

Technical Specs:

- Validate against Code List "SITE_INDEX_SRCE_CD" Current valid values are:

Code	Result
A	Site index from adjacent stand
I	SI from growth intercept
O	SI from provincial SIBEC rollover, Nov 1998
C	SI from site index curve
H	SI from stand before harvest
E	SI from Biogeoclimatic Ecosystem Classification
M	SI from G, M, P, L site class conversion

- Must be present if Site Index > 0
- Must be blank if Site Index = 0
- Drop Support for SITE_CLASS_CD

Database Changes:

- Rename Column

Amendment 2000-06-07:

- Changed so that Site Index Source is not mandatory if Site Index is > 0.
  WARNING: Site Index Source should be present when Site Index is provided. Err Ref# 2154.

NEED SUPPORT FOR RG & FG DECLARATION

Release Date: Fall, 2000

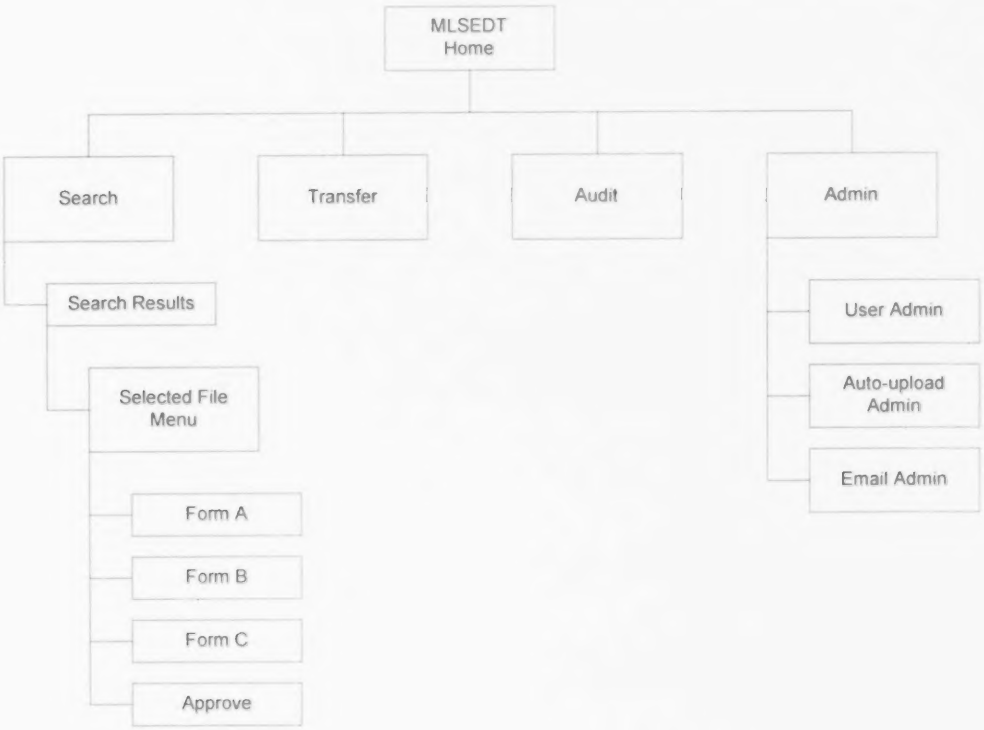
Business Rules:

Technical Specs:

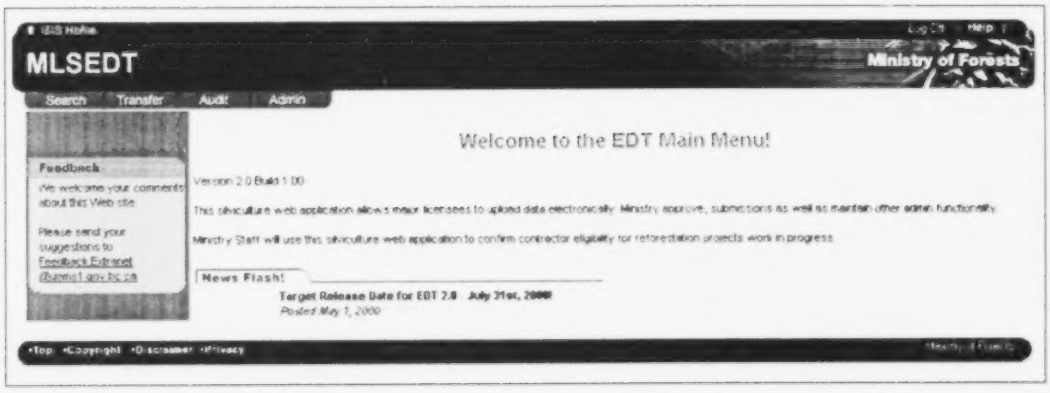
Database Changes:

WEB

SITE MAP

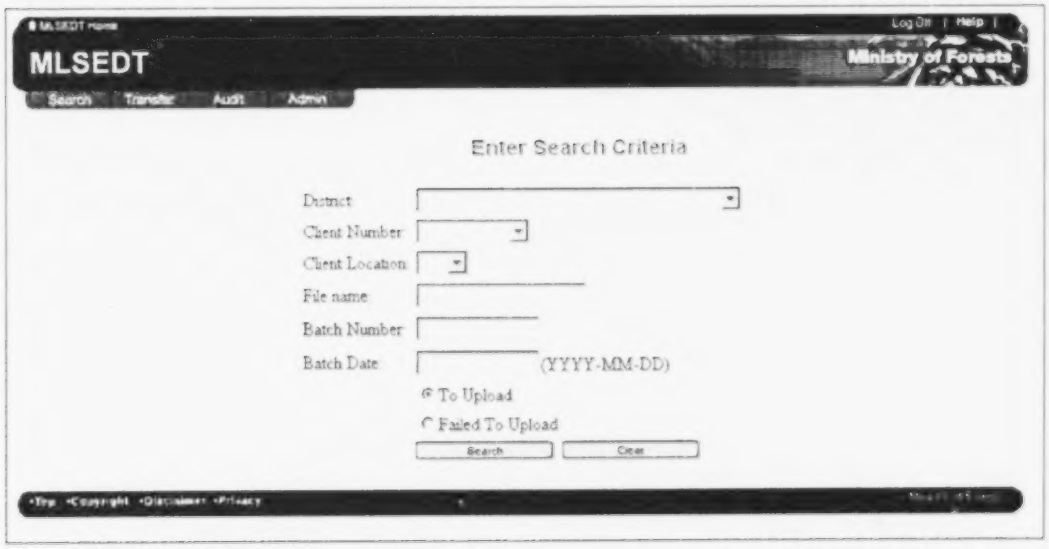

MLSEDT Home
Search
Transfer
Audit
Admin
Search Results
Selected File Menu
Form A
Form B
Form C
Approve
User Admin
Auto-upload Admin
Email Admin

EDT MAIN MENU



Release Date: July, 2000
Web Location: http://spock.pangaea.ca/isb/mlsedt2

SEARCH CRITERIA



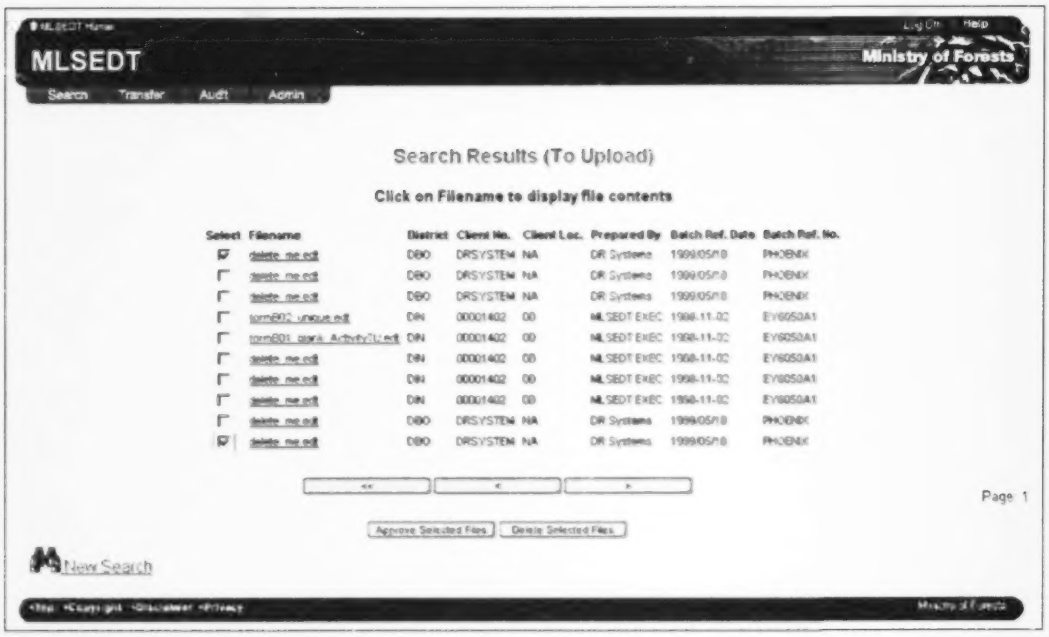
Release Date: July, 2000
Web Location: http://spock.pangaea.ca/iscripts/isb/mlsedt2/searchcriteria.asp

Technical Specs:

- Default the File Name to the File Name sent in an email. When the email is sent to go and approve a file, the

link to Search Results is provided, add the file name to the query string and read the file name in when loading the page.

ADD ABILITY TO SELECT APPROVALS AT THE FILE LEVEL TO UPLOAD



Release Date: July, 2000

Web Location: http://spock.pangaea.ca/iscripts/isb/mlsedt2/SearchResults.asp

Business Rules:

- Have ability to approve at the file level, not just opening level.

Technical Specs:

- Allow file(s) to be selected by use of check box (es) and "Approve Selected Files" button.
- When "Approve Selected Files" is clicked, for each file selected set the APPROVED_IND in EDT_FILE_REFERENCE to 'Y'
- The value of each check box is the FILE_REFERENCE_SKEY
- If user selected files to approve on Page 1, you must click "Approve Selected Files" before proceeding to Page 2.
- When "Approve Selected Files" is clicked, the screen refreshes and the file is no longer in the list.

Database Changes:

- No Database Changes are required.

ADD DELETE FUNCTIONALITY TO WEB

MLSEDT
Ministry of Forests
Search
Transfer
Audit
Admin
Search Results (To Upload)
Click on Filename to display file contents
Select
Filename
District
Client No.
Client Loc.
Prepared By
Batch Ref. Date
Batch Ref. No.
delete_me.ndl DBO DRSYSTEM NA DR Systems 1999/05/18 PHOENIX
delete_me.ndl DBO DRSYSTEM NA DR Systems 1999/05/18 PHOENIX
delete_me.ndl DBO DRSYSTEM NA DR Systems 1999/05/18 PHOENIX
form802_unique.ndl DIN 00001402 00 MLSEDT EXEC 1998-11-02 EY6050A1
form801_blank_Activity.ndl DIN 00001402 00 MLSEDT EXEC 1998-11-02 EY6050A1
delete_me.ndl DIN 00001402 00 MLSEDT EXEC 1998-11-02 EY6050A1
delete_me.ndl DIN 00001402 00 MLSEDT EXEC 1998-11-02 EY6050A1
delete_me.ndl DIN 00001402 00 MLSEDT EXEC 1998-11-02 EY6050A1
delete_me.ndl DBO DRSYSTEM NA DR Systems 1999/05/18 PHOENIX
delete_me.ndl DBO DRSYSTEM NA DR Systems 1999/05/18 PHOENIX
<<
<
>
Page: 1
Approve Selected Files
Delete Selected Files
New Search

Release Date: July, 2000

Web Location: http://spock.pangaea.ca/iscripts/isb/mlsedt2/searchResults.asp

Business Rules:

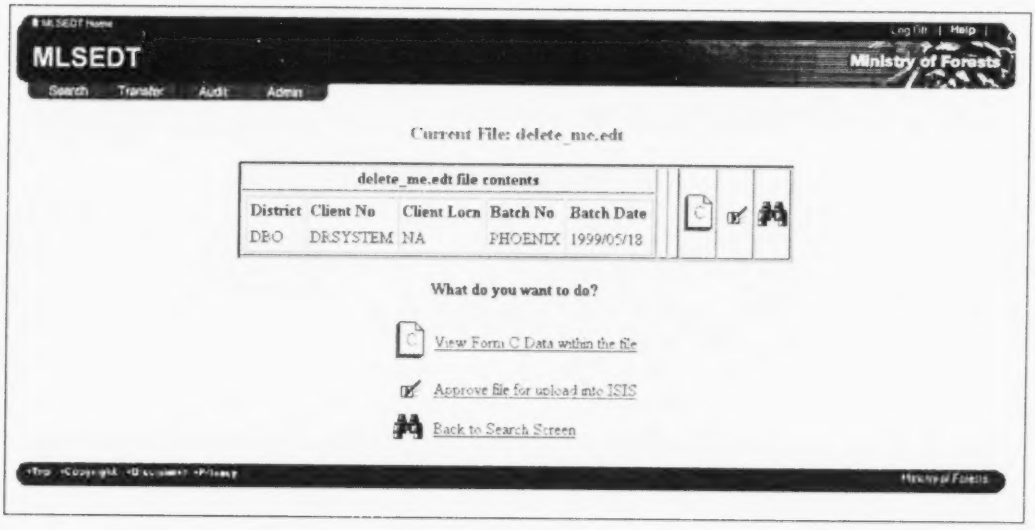
- Have the ability to delete files from the web.

Technical Specs:

- Need to modify search results to select files to delete and option to delete the selected files.
- When "Delete Selected Files" is clicked, for each file selected, delete all related records from all tables.
- The value of each check box is the FILE_REFERENCE_SKEY
- If user has Selected files to delete on Page 1, you must click "Delete selected files" before proceeding to Page 2.
- When "Delete Selected Files" is clicked, the screen refreshes and the file is no longer in the list.
- A confirmation message will appear on delete.

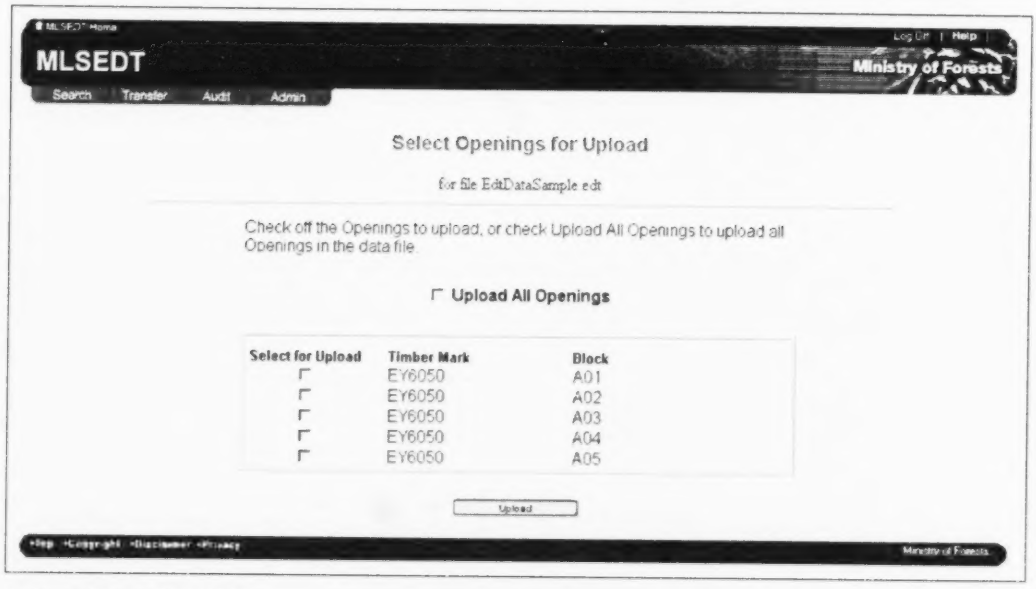
Database Changes:
No database changes are required.

EDT FILE MENU



- There have been no functional changes to this screen.

ADD ABILITY TO SELECT OPENINGS FOR UPLOAD



Release Date: Fall, 2000

Web Location: http://spock.pangaea.ca/iscripts/isb/mlsedt2/Approve.asp

Business Rules:

- Add ability to select individual openings from an import file to upload.

Technical Specs:

- Needs a new screen to support this
- There are two choices:
  1. Upload all opening by clicking the "Upload All Openings" check box and click "Upload".

  OR

  2. For each opening selected, upload the selected opening.
- If the "Upload all Openings" button is checked and individual openings are selected, the user will be notified to select one or the other, not both.
- The screen will refresh after the upload and the opening will no longer be in the list.
- Form C Display Layout will be changed.

Database Changes:

- Table (s) to support the submission auditing and tracking will be required.

ADD ABILITY FOR DISTRICTS TO SCREEN BY LICENSEE THOSE ABLE TO AUTOUPLOAD

Release Date: July, 2000

Web Location: http://spock.pangaea.ca/iscripts/isb/mlsedt2/auto_upload.asp

Business Rules:

- Add ability for districts to screen by licensee those able to auto upload.

Technical Specs:

- The screen will show all Licensee's based off the district chosen. The Licensee's will be all Forest Clients for the district. A Forest Client can be determined by linking into the TIMBER_MARK table.
- District may choose "entire District can Auto Upload" or specify which client may Auto Upload. If the district sets entire District can Auto Upload all Client Location Preferences will be removed.

Database Changes:

- A new table will be required: EDT_MLS_DIST_CLIENT_REF with the following fields:
  ADMIN_DISTRICT_NUMBER (NUMBER)
  CLIENT NUMBER VARCHAR(8)
  CLIENT LOCATION VARCHAR(2)
  MLS_EDT_AUTOUPLOAD CHAR(1)

ADD ABILITY FOR USERS TO MAINTAIN INFORMATION

Release Date: Fall, 2000

Web Location: http://spock.pangaea.ca/iscripts/isb/mlsedt2/admin.asp

Business Rules:

- Add ability for User to maintain userid, phone Etc **Fall, 2000**

Technical Specs:

- Need a new screen to allow users to maintain information.

Database Changes:

- Database Changes required.

ADD ABILITY TO MAINTAIN EMAIL ADMINISTRATION

Release Date: July, 2000

Web Location: http://spock.pangaea.ca/iscripts/isb/mlsedt2/emailadmin.asp

Business Rules:

- Add ability to maintain email administration (cc etc.)

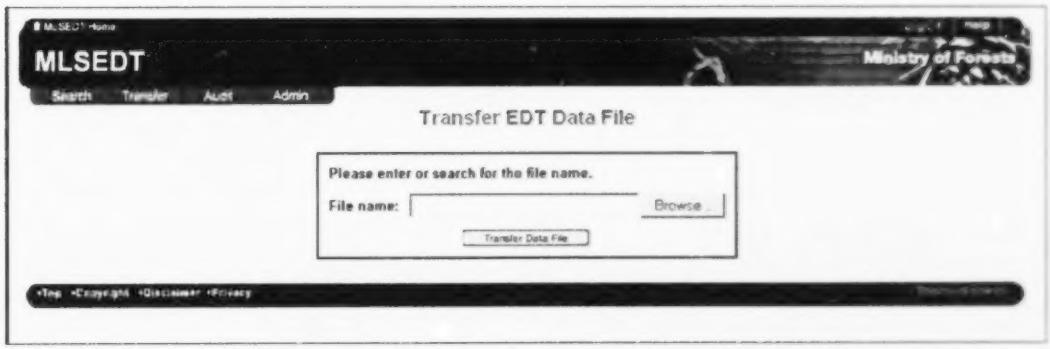
Technical Specs:

- Need a new screen to maintain email administration.

Database Changes:

- Database Changes are required. A new table EDT_PREFERENCES will be added currently the MSLEDT Default Email Address will be in here but this will support other preferences if needed in the future.

ADD FILE SUBMISSION SCREEN TO WEB



Release Date: Fall, 2000

Web Location: http://spock.pangaea.ca/iscripts/isb/mlsedt2/upload.asp

Business Rules:

- Do file transfers to EDT via the web so that auditing and security may be implemented..

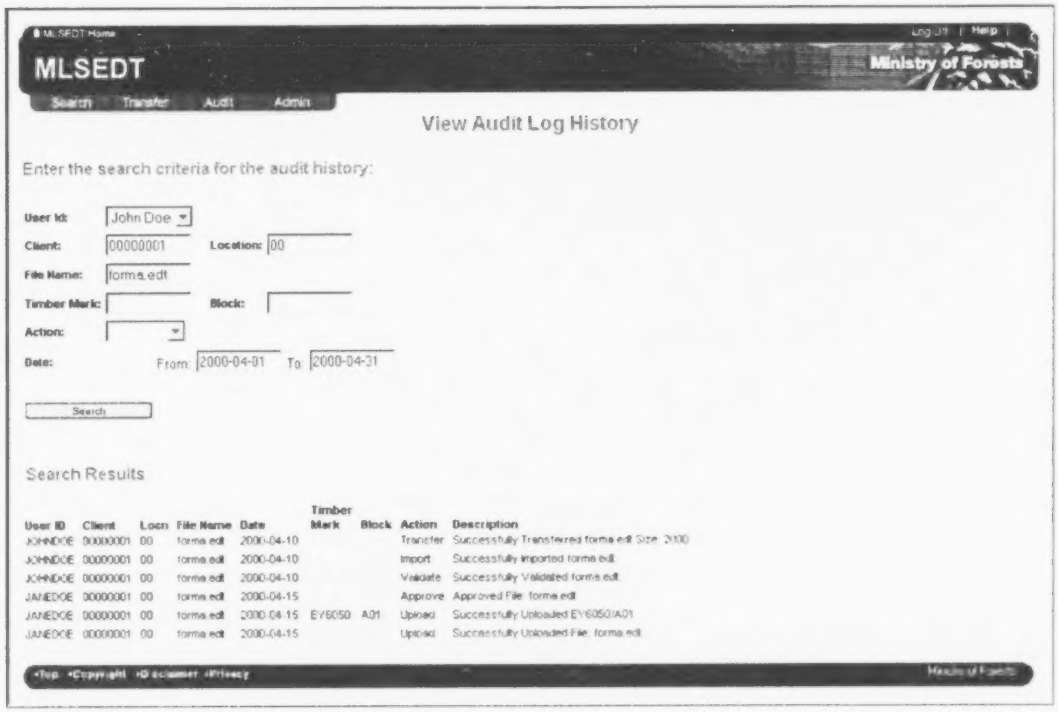
Technical Specs:

- Needs a new table for tracking audits, a search screen to display auditing results. For details on the Search screen see the section "Audit History Screen"

Database Changes:

- Table (s) to support the submission auditing and tracking will be required.

AUDIT HISTORY SCREEN


MLSEDT Home
Log Off | Help |
MLSEDT
Ministry of Forests
Search Transfer Audit Admin
View Audit Log History
Enter the search criteria for the audit history:
User Id: John Doe
Client: 00000001
Location: 00
File Name: forma.edt
Timber Mark:
Block:
Action:
Date: From: 2000-04-01 To: 2000-04-31
Search
Search Results
User ID Client Locn File Name Date Timber Mark Block Action Description
JOHNDOE 00000001 00 forma.edt 2000-04-10 Transfer Successfully Transferred forma.edt Size: 2000
JOHNDOE 00000001 00 forma.edt 2000-04-10 Import Successfully Imported forma.edt
JOHNDOE 00000001 00 forma.edt 2000-04-10 Validate Successfully Validated forma.edt
JANEDOE 00000001 00 forma.edt 2000-04-15 Approve Approved File: forma.edt
JANEDOE 00000001 00 forma.edt 2000-04-15 EY6050 A01 Upload Successfully Uploaded EY6050/A01
JANEDOE 00000001 00 forma.edt 2000-04-15 Upload Successfully Uploaded File: forma.edt
•Top •Copyright •Disclaimer •Privacy

Release Date: July, 2000

Web Location: http://spock.pangaea.ca/iscripts/isb/mlsedt2/audit.asp

Business Rules:

- Have the ability to view audit information
- For Fall 2000, Investigate displaying the contents of the EDT file.

Technical Specs:

- Needs a new table for tracking audits, a search screen to display auditing results.

Database Changes:

- New table will be required.

SYSTEM

UPGRADE TO DELPHI 5

Technical Specs:

- Upgrade to Delphi 5

Database Changes:

- No Database changes are required.

INVESTIGATE "ODAC" VS "ADO EXPRESS" FOR APP-ORACLE CONNECTION

Business Rules:

- Try to remove ODBC; and associated problems from the picture.

Technical Specs:

- Investigate ODAC = "Oracle Direct Access"
- Investigate ADO Express
- Both options do not use BDE or ODBC

Database Changes:

- No Database changes are required.

INVESTIGATE USING NATIVE DELPHI 5 MAIL TOOLS

Business Rules:

- The current GovEmailTools DLL controls do not support CC and are unsupported by vendor (ITSD)

Technical Specs:

- Investigate the Delphi 5 mail tools and determine if they have improved over the Delphi 3 controls, if so switch to those controls.

Database Changes:

- No Database changes are required.

INVESTIGATE/FIX HANDLE LEAK (ODBC)

Business Rules:

- ODBC drivers leak handles and memory.

Technical Specs:

- Investigate and determine whether the use of ODAC or ADO Express (see above) may remove this issue.

Database Changes:

- No Database changes are required.

ALLOW INI FILE TO BE UPDATED ON THE FLY

Release Date: July, 2000

Business Rules:

- Need to be able to change ini file parameters without having to restart EDT

Technical Specs:

- Change EDT to re-read ini file whenever performing a function that uses a variable set by the ini file.

Database Changes:

- No database changes required.

REWRITE AS SERVICE(S)

Business Rules:

- Need to be able to change ini file parameters without having to restart EDT

Technical Specs:

- Change EDT to re-read ini file whenever performing a function that uses a variable set by the ini file.

Database Changes:

- No database changes required.

INVESTIGATE SEPARATING FUNCTIONS INTO SEPARATE SERVICES

Business Rules:

- This would see the Import, Validate and Upload processes each become a separate NT service.
- Each service can be stopped/started without affecting others.

Technical Specs:

- Investigate what it would take to separate the Import, Validate and Upload process and make them NT Services.

Database Changes:

- No database changes required.

INVESTIGATE USING XML

DOCUMENT PROCESS FLOW FOR VALIDATIONS

UPDATE ONLINE DOCUMENTATION

TEST PLAN

MLSIS-EDT Integration Testing Schedule **Test Type: Business Rules – testing the Header Record** **Purpose: To validate the EDT header record.**					**Iteration:** **Date:**	
#	Business Rule	Script ID	Expected Result	Actual Result	Pass	Fail
4.	Mandatory Field - Validation Indicator	HDR007	Reject, if not "V", "X", "U" or blank. Error 2116.			
5.	Mandatory Field - Opening/Batch-Centric Ind	HDR008	Reject, if not "O", "X", "B" or blank. Error 2117.			
6.	Add CC information	HDR009	Reject, if CC info not extracted.			
7.	Add From information	HDR010	Reject, if From info not extracted.			

System: MLSIS-EDT Iteration: **Test Type: Validation** **Purpose: To test the Form A Validation edits**							**Iteration:** **Date:**	
Step #	Step Description	Sub-Step Description	Expected Results	Actual Results	Script ID	Pass/Fail/Skip	Date	Initials
123.	Validation of A07 Rules	Mandatory Record - A07	Reject, if A07 does not exist, error 2118.		FormA07_no_A07_record.edt			
124.		Sum of NPR + NAR must equal Tap Area	Reject record, error 2119.		FormA07_invalid_sum.edt			
125.		All fields defined as 99999.9	Reject record.		FormA07_invalid_fields.edt			
126.	Validation of A08 Rules	Reserve Id is mandatory and must be unique.	Reject record, error 2123.		FormA08_invalid_reserve_id.edt			
127.		Reserve Type Code must be validated against the Reserve Type in the Code Table	Reject record, error 2124.		FormA08_invalid_reserve_type_code.edt			
128.		Reserve Area or Basal Area is required.	Reject record, error 2125.		FormA08_missing_reserve_basal.edt			
129.		Reserve Area must be in the range of 0 to 9999.9	Reject record, error 2126.		FormA08_invalid_reserve_area.edt			
130.		SU XRef is required when Planned Entry Id is "Y"	Reject record, error 2127.		FormA08_missing_SUXRef_planned_Entry.edt			
131.		Basal Area must be in the range	Reject record, error 2128.		FormA08_inv			

System: MLSIS-EDT Iteration: Test Type: Validation Purpose: To test the Form A Validation edits							Iteration: Date:	
Step #	Step Description	Sub-Step Description	Expected Results	Actual Results	Script ID	Pass/Fail/Skip	Date	Initials
		of 0 to 999			alid_basal_area.edt			
132.		When Planned Entry is "N" the SU's selected must not have area assigned to them	Reject record, error 2129.		FormA08_planned_entry_SU_area.edt			

System: MLSIS-EDT Iteration: Test Type: Validation Purpose: To test the Form B Validation edits							Iteration: Date:	
Step #	Step Description	Sub-Step Description	Expected Results	Actual Results	Script ID	Pass/Fail/Skip	Date	Initials